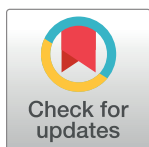


CORRECTION

Correction: Osmium isotope analysis as an innovative tool for provenancing ancient iron: A systematic approach

Michael Brauns, Naama Yahalom-Mack, Ivan Stepanov, Lee Sauder, Jake Keen, Adi Eliyahu-Behar

In [Table 3](#), there are errors in the rows Std Dev. Ore and Std Dev. Tap Slag of EXP-1: IP49, Tap slag (last tapping) of EXP-5: IP43, Ore IP61 (IP-39) and Tap slag (last tapping) of EXP-6: IP61 and Ajloun Ore. Please see the correct [Table 3](#) here.



OPEN ACCESS

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Table 3. Results of Os IC analysis. Os isotopes composition of experimental iron smelting; ores, blooms, bars, slag, and additional materials.

Experiment	sample type	Sample name	187Os/188Os	2s	ppt Os	2s	Os ppt/Ore ppt
EXP-1: IP49	Ore IP49	IP-49	1.0437	0.0032	183	2	1.10
	Ore IP49	IP-21	1.0717	0.0032	179	9	1.07
	Ore IP49	IP-22	1.0591	0.0032	138	7	0.83
	Average Ore		1.0581	0.0032	167	6	1.00
	Std Dev. Ore		0.0140	0	20	3	
	Roasted ore IP49	F.EXP-1-50	1.0497	0.0032	157	1	0.94
	Bloom	F.EXP-1-40	1.0460	0.0032	950	9	5.69
	Bar	F.EXP-1-43	1.0490	0.0032	1104	10	6.61
	Tap slag	F.EXP-1-16 (First tapping)	0.8415	0.0026	3	0	0.02
	Tap slag	F.EXP-1-22a (Last Tapping)	0.9265	0.0028	4	0	0.03
	Tap slag	F.EXP-1-22b (Last Tapping)	0.7701	0.0023	3	0	0.02
	Tap slag	F.EXP-1-22b replica	0.7947	0.0024	3	0	0.02
	Tap slag	F.EXP-1-22c (Last Tapping)	0.9467	0.0029	5	0	0.03
	Tap slag	F.EXP-1-22d (Last Tapping)	0.7351	0.0022	3	0	0.02
	Tap slag	F.EXP-1-22e (Last Tapping)	0.8945	0.0027	3	0	0.02
	Average Tap Slag		0.8442	0.0026	3	0	0.02
	Std Dev. Tap Slag		0.0813	0.0002	0.9	0	
	Furnace slag	F.EXP-1-24	1.0068	0.0031	200	2	1.20
	Smithing slag	F.EXP-1-45	1.0505	0.0032	155	1	0.93
EXP-5: IP43	Ore IP43	IP-43	1.1157	0.0034	5123	51	1.07
	Ore IP43	IP-43	1.0383	0.0031	4429	44	0.93
	Average Ore		1.0770	0.0033	4776	48	1.00
	Std Dev. Ore		0.0387	0.0001	347	3	
	Roasted ore IP43	F.EXP-5-50	1.0173	0.0031	6089	57	1.27
	Roasted ore IP43	F.EXP-5-50-replica	1.0145	0.0031	6667	62	1.40
	Bloom	F.EXP-5-40	1.0347	0.0031	69183	642	14.49
	Bloom	F.EXP-5-40 replica	1.0368	0.0031	48147	447	10.08
	Bar	F.EXP-5-43	1.0371	0.0031	133574	1240	27.97
	Bar	F.EXP-5-43 replica	1.0367	0.0031	129438	1201	27.10
	Tap slag	F.EXP-5-2 (first tapping)	1.0337	0.0031	174	2	0.04
	Tap slag	F.EXP-5-13 (last tapping)	1.0453	0.0032	213	2	0.04
	Average Tap slag		1.0395	0.0032	194	2	0.04
	Std Dev. Tap Slag		0.0058	0.0000	20	0	
	Furnace slag	F.EXP-5-16	1.0284	0.0031	27173	252	5.69
	Furnace slag	F.EXP-5-16 replica	1.0305	0.0031	14452	134	3.03
	Smithing slag	F.EXP-5-45	1.0440	0.0032	1279	12	0.27
EXP-6: IP61	Ore IP61	F.EXP-6-1	1.0357	0.0031	18932	176	1.18
	Ore IP61	F.EXP-6-1 replica	1.0357	0.0031	14407	134	0.89
	Ore IP61	F.EXP-6-2	1.0255	0.0031	14983	150	0.93
	Ore IP61	IP-39	1.0221	0.0033	18791	188	1.12
	Average Ore		1.0297	0.0032	16778	162	1.04
	Std Dev. Ore		0.0061	0.0001	2094	21	
	Roasted ore IP61	F.EXP-6-50	1.0296	0.0031	15067	140	0.94
	Roasted ore IP61	F.EXP-6-50 replica	1.0640	0.0032	13683	127	0.85
	Bloom	F.EXP-6-40	1.0500	0.0032	63680	591	3.95
	Bar	F.EXP-6-43	1.0490	0.0032	63995	640	3.97
	Bar	F.EXP-6-43 replica	1.0498	0.0032	63680	591	3.95

(Continued)

Table 3. (Continued)

Experiment	sample type	Sample name	187Os/188Os	2s	ppt Os	2s	Os ppt/Ore ppt
	Tap slag	F.EXP-6-5 (first tapping)	1.0371	0.0031	227	2	0.01
	Tap slag	F.EXP-6-19 (last tapping)	1.0375	0.0031	188	2	0.01
	Average slag		1.0373	0.0031	208	2	0.01
	Std Dev. Tap Slag		0.0002	0.0000	20	0	
	Furnace slag	F.EXP-6-21	1.0585	0.0032	50233	466	3.12
	Furnace slag	F.EXP-6-21 replica	1.0501	0.0032	12530	116	0.78
	Smithing slag	F.EXP-6-45	1.0445	0.0032			0.00
	Average Negev Ore		1.0550	0.0032	7240	72	
	Std Dev. Negev Ore		0.0238	0.0000	8587	80	
Materials	Kaolin	F.EXP-1-52	0.5869	0.0018	19	0	
	Charcoal Type 1	F.EXP-1-51	0.3595	0.0036	3	0	
Ajloun Ore	Ajloun ore	IP-27	2.0556	0.0062	142	1	0.74
	Ajloun ore	IP-28	2.1378	0.0064	252	3	1.31
	Ajloun ore	IP-63	1.6067	0.0049	134	1	0.70
	Ajloun ore	IP-64	2.4945	0.0076	155	1	0.81
	Ajloun ore	IP-65	2.1205	0.0064	277	3	1.44
	Average		2.0830	0.0063	192	2	1.00
	Std Dev.		0.2833	0.0009	60	1	

<https://doi.org/10.1371/journal.pone.0316588.t001>

Reference

1. Brauns M, Yahalom-Mack N, Stepanov I, Sauder L, Keen J, Eliyahu-Behar A (2020) Osmium isotope analysis as an innovative tool for provenancing ancient iron: A systematic approach. PLoS ONE 15(3): e0229623. <https://doi.org/10.1371/journal.pone.0229623> PMID: 32187196